CONTENTS

Tectonophysics Volume 163

Research Papers

Magnetic signatures of zones of fractures in igneous metamorphic rocks with an example from southeastern New England
Frohlich, R.K. (Kingston, R.I., U.S.A.) ... 1

Evidence for the subduction and underplating of an oceanic plateau beneath the south Peruvian margin during the late Cretaceous: structural implications
Soler, P. (Paris, France), Carlier, G. (Paris, France and Lima, Peru) and Marocco, R. (Paris, France and Quito, Ecuador) ... 13

Aeromagnetic measurements in the Eastern Alps: the area of the Tauern Window
Heinz, H. (Vienna, Austria) ... 25

Investigation of a high stress drop earthquake on August 30, 1986 in the Vrancea region
Oncescu, M.C. (Bucharest-Magurele, Romania) ... 35

An example of the relationship between rift and dome: recent geodynamic evolution of the Hoggar swell and of its nearby regions (Central Sahara, Southern Algeria and Eastern Niger) ... 45

Three-dimensional P-wave velocity structure beneath Central Japan: low-velocity bodies in the wedge portion of the upper mantle above high-velocity subducting plates
Hirahara, K. (Kyoto, Japan), Ikami, A. (Nagoya, Japan), Ishida, M. (Ibaraki, Japan) and Mikumo, T. (Kyoto, Japan) 63

The Southwest Ryukyu Arc is a migrating microplate (forearc sliver)
Kuramoto, S. and Konishi, K. (Kanazawa, Japan) ... 75

Geophysical observations around the northern Yap Trench: seismicity, gravity and heat flow
Nagihara, S. (Chiba, Japan), Kinoshita, M., Fujimoto, H., Katao, H. (Tokyo, Japan), Kinoshita, H. (Chiba, Japan) and Tomoda, Y. (Tokyo, Japan) ... 93

Quaternary uplift rates at a plate boundary, Lae urban area, Papua New Guinea
Crook, K.A.W. (Canberra, A.C.T., Australia) ... 105

Deformation regimes and the rheological evolution of fault zones in the lithosphere: the effects of pressure, temperature, grainsize and time
Handy, M.R. (Bern, Switzerland) ... 119

An analytical model of hanging-wall and footwall deformation at ramps on normal and thrust faults
Kilsdonk, B. and Fletcher, R.C. (College Station, Tex., U.S.A.) ... 153

Microboudin structure of piedmontite in quartz schists: a proposal for a new indicator of relative palaeodifferential stress
Masuda, T., Shibutani, T., Igarashi, T. and Kuriyama, M. (Shizuoka, Japan) ... 169

Special issue on Paleoseismicity and Neotectonics (edited by N.A.-Mörner and J. Adams)

Introduction ... 181

Holocene paleoseismicity in the fold and thrust belt of the Hikurangi subduction zone, eastern North Island, New Zealand
Berryman, K.R. (Lower Hutt, New Zealand), Ota, Y. (Yokohama, Japan) and Hull, A.G. (Lower Hutt, New Zealand) 185

Surface faulting caused by the Kalamata (Greece) earthquakes (13.9.86)
Mariolakos, I., Fountoulis, I., Logos, E. and Lozios, S. (Athens, Greece) ... 197

Brittle deformations in the Upper Pleistocene deposits of the Crotone Peninsula, Calabria, southern Italy
Cosentino, D. (Rome, Italy), Gliozzi, E. (Naples, Italy) and Salvini, F. (Pisa, Italy) ... 205

The role of neotectonics in the morphologic distribution of the Quaternary marine and continental deposits of the Elche Basin, southeast Spain
Goy, J.L. and Zazo, C. (Madrid, Spain) ... 219

Neotectonics and glacial deformation in the Karakoram Mountains and Nanga Parbat Himalaya
Owen, L.A. (Leicester, Great Britain) ... 227

The rate of uplift in the Alpine mobile belt
Nikonov, A.A. (Moscow, U.S.S.R.) ... 267

Neotectonics versus gravity and crustal thickness: a case study of the Polish Flysch Carpathians
Zuchiewicz, W. (Cracow, Poland) ... 277

The tectonic deformation of Quaternary deposits within the Kleszczów Graben, central Poland
Krzyszkowski, D. (Wroclaw, Poland) ... 285

Neotectonics and Paleoseismicity within the Stockholm intracratonal region in Sweden
Mörner, N.-A., Somi, E. (Stockholm, Sweden) and Zuchiewicz, W. (Cracow, Poland) 289
Recent fault movement and palaeoseismicity in western Scotland
Ringrose, P.S. (London, Great Britain) 305
Quaternary tectonics in the northern Ardennes, Belgium
Demoulin, A. (Liège, Belgium) 315
Postglacial faulting in eastern Canada: nature, origin and seismic hazard implications
Adams, J. (Ottawa, Ont., Canada) 323
Geomorphic evidence for neotectonism in central Wyoming, U.S.A.
Jaworowski, C. (Laramie, Wyo., U.S.A.) 333